

TECHNICAL DATA SHEET

Envirorend Basecoat (Granol'Therm G)

SPS Envirowall Envirorend Basecoat, Granol'therm G is used as a bonding adhesive for insulating boards in the SPS Envirowall EWI system. It is also used as a reinforcing and levelling coat with a fibre mesh.



Technical Data	
Bulk density of dry mortar	± 1.3 kg/dm ³
Freshraw mortar density	± 1.7 kg/dm ³
Granulometry	0 - 0.7mm
Water absorption after 1 hour (on EPS)	< 1 kg/m ²
Water absorption after 24 hour (on EPS)	< 0.5 kg/m ²
Thermal conductivity	0.87 w/(m.K)
Compressive strength	≥ 7 N/mm ²
Initial adhesion on EPS	≥ 0.08 MPa
Adhesion on EPS after 48 h immersion in water + 2 h 23°C/50% HR	≥ 0.03 MPa
Adhesion on EPS after 48 h immersion in water + 7 days 23°C/50% HR	≥ 0.08 MPa
Initial adhesion on concrete	≥ 0.25 MPa
Adhesion on concrete after 48 h immersion in water + 2 h 23°C/50% HR	≥ 0.08 MPa
Adhesion on concrete after 48 h immersion in water + 7 days 23°C/50% HR	≥ 0.25 MPa
Water vapour permeability (3 mm)	sd < 0.1 m
Composition	
Factory made dry mineral mortar according to DIN 18557, corresponds property wise to mortar group P II, weatherproof, according to DIN 18550	
Preparation	
Preparation Substrate	
Granol'therm G bonds to all load bearing, stable, dry, and even substrates. Mortar remnants, loose parts, contaminations and efflorescences must be removed from the substrate. Uneven parts on the substrate > 1 cm should be levelled out. Strong absorbing substrates must be primed or premoistened with water. Due regard should be given to the precautionary prescriptions according to DIN 18195 against soil moisture. In case of doubt or dubious substrates, please consult our technical advisers.	
Application	
Can be applied with all render machines on condition that you follow the manufacturer's instructions. Ensure the dry mortar is intensively mixed with approx. 6-7 litre clean water. Drying time: approx. 2-3 days depending on substrate and weather conditions. Do not apply at temperatures below +5°C or, on frozen substrates or above +30°C.	
Bonding:	
For bonding rigid foam insulating panels on even substrates, the mortar is applied with a notched trowel 10/12 to obtain a ribbed mortar bed on the entire surface of the dry panel. For uneven substrates the mortar is applied along the sides of the panel's surface forming a frame, then two stripes of mortar are applied in the middle of the surface dividing the frame into three parts. Beware to precisely apply the mortar along the sides of the panel's surface.	

Reinforcement and embedding:

For the embedding of the reinforcement mesh, Envirorend Basecoat is applied uniformly over the insulation panels with a flat spatula. The mesh is applied downwards in the mortar and is then levelled out covering the whole mesh.

The total thickness of the mortar and the mesh together should be in between 3 and 5 mm. The mesh should be on the upper side of the coat i.e. if we were to split the mortar coat into two halves the mesh should be just in the outside half of the coat. The mesh strips should overlap each other by at least 10 cm. After a drying process of 2 to 3 days (or longer according to the weather conditions) the primer and top coat render can be applied.

Fresh render must be protected against torrential rain and against too fast drying. Especially by direct sunlight or wind exposure the façade should be correctly protected i.e. by hanging a protection net. Do not apply when the substrate or the environmental temperatures are below 5° C.

Tools and machines should be cleaned immediately after application with water. Other parts of the building such as windows, doors or thresholds should correctly be protected.

Consumption

Adhesive : 3 - 5kg/m²

Reinforcement : 3 - 5kg/m²

Coating of a ribbed panel : ± 7 kg/m²

Packaging

In 25 kg paper bags

The product must be stored in dry conditions. in unopened bags it can be stored for at least 12 months. Opened bags should be used as soon as possible.

Special References

In order to prevent colour differences in the upper coat due to high water transitions from into outside, it is imperative to let new buildings dry out completely before starting the insulation works.

Do not mix binders and additives.

Disposal

Only empty bags (no dust residues) can be offered for recycling. Hardened material residues, such as mixed building and demolishing debris must be disposed off in an environmentally friendly way. EAK 17 09 04.

Disclaimer

To the best of our knowledge and belief, this information is true and accurate. However, as conditions of use of the product and the expertise of any labour involved are beyond our control, the end user must satisfy themselves by prior testing that the product is suitable for their specific application if no spec has been provided for the project in hand. No responsibility can be accepted, nor any warranty given by our Representatives, Agents or Distributors. Products are sold subject to our Standard Conditions of Sale and the end user should ensure that they have consulted our latest literature. Keep out of reach of children.

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